ABSTRACT

In case of decoding by a software process, in
the process 1, video data of a decoded frame
corresponding to a management ID stored at the head of
an output FIFO 4 at its time point is read out and
outputted. In the process 2, audio data is decoded.
In the process 3, the video data is decoded. The
decoded video data is stored in a video frame buffer
and its management ID is stored in the output FIFO 4 in
the outputting order. When the process 3 cannot be
finished, the process 3 is interrupted during the
process and the image of the frame stored at the head
of the output FIFO 4 is outputted. After that, when
the process 2 is finished, the decoding process of the
process 3 which was temporarily interrupted is
restarted. In case of performing the encoding by the
software process, an encoding amount of the video data
as a processing target of the encoding is predicted.
Subsequently, whether an empty capacity enough to store
the data of the predicted encoding amount exists in a
code buffer or not is discriminated. If it is
determined that there is the empty capacity, the
encoding is started and the video data in which the
encoding was finished is deleted from the video frame
buffer. The encoding is temporarily interrupted when a
reading process or the like of the video data is
performed.

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